

2 Williams Street  
Chelsea, MA 02150  
( 617 ) 889 - 6515

BK ✓



## INSPECTORATE

## QUALITY CERTIFICATE

Vessel	"Penn - 120"	Port	Providence, RI	Report	014704
Customer	Sprague Energy	Date	January 22, 2004	Reference	
Operation	Analysis	Terminal	Sprague Energy Providence	Sample #	368054

Name of material being tested  
Description of sample source  
Samples Drawn by (company)  
Samples Tested by (company)

### # 6 Fuel Oil

Shore Tank # 6 After Discharge  
Inspectorate America Corp.  
Inspectorate America Corp.

Tests being Performed	Test method	Sample Results
Gravity API @ 60 F	D - 4052	11.6
Flash Point, PMCC, F	D - 93	194
Viscosity cSt @ 122 F	D - 445	374.5
Viscosity SFS @ 122 F	D - 1261	176.79
Pour Point, F	D - 97	27
Sulfur, wt %	D - 4294	0.972
Water by Distillation, vol %	D - 95	0.30
Gross Heat of Combustion, BTU / lb	D - 240	18,445
Gross Heat of Combustion, BTU / gal	D - 240	151,896
Water and Sediment, vol %	D - 1796	0.30
Ash wt %	D - 482	0.054
Ashphaltenes, wt %	IP - 143	7.14
Sediment by Extraction, wt %	D - 473	0.04
Vanadium, ppm	D - 5863	92
Sodium, ppm	D - 5863	36
Conradson Carbon Residue, wt %	D - 189	12.02
Nitrogen, wt %	D - 5762	0.46
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\*\* Annotates Analysis Contracted Out